

BOREHOLE LOG

Project Name: VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1								
Project Number: 01K78601			Borehole No.: 20-MW-13			Sheet 1 of 2		
Borehole Location: 2099493.94 N, 5801890.22 E						Elevation and Datum: 456.30 feet MSL		
Drilling Contractor: Tri-County Drilling, Inc.			Date Started: 05/18/98			Date Ended: 05/19/98		
Drilling Equipment: CME-75			Total Depth: 54 feet			Groundwater Depth: 45 feet		
Drilling Method: Hollow Stem Auger			Sampling Method: Split Spoon			Borehole Diameter: 11 inches		
Driller: M. Ferguson			Borehole Abandonment: Completed as 4" monitoring well					
Hammer Information: Manual Hammer: 140-lb and 30-inch drop			Logged By: D. Peeler			Checked By: M. Anderson		

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	SILTY SAND, dark yellowish brown (10YR 4/4), slightly moist, loose, with silt (40%) and trace shale gravel.		SM				0	Hand augered to 7 feet Second attempt 5 feet North of first attempt.
5	CLAYEY SAND, light brownish gray (2.5Y 6/2), slightly moist, stiff, firm, medium plasticity to very stiff, hard, with moderate cementation.		SC				0	Resembles "caliche".
10	SANDY CLAY, very pale brown (10YR 8/2), dry, hard brittle thin lenses alternate with slightly moist, firm, low plasticity, sandier lenses.		CL				0	
	SANDY CLAY, light olive brown (2.5Y 5/4), slightly moist, stiff, firm, low plasticity, with sand (40%).		CL				0	
15	Same as above, olive brown (2.5Y 4/3).		CL				0	
20	CLAY, very pale brown (10YR 8/2), dry, hard, weak cementation, with sand-size rock fragments (20%).		CL				0	
25	CLAY, grayish brown (2.5Y 5/2), slightly moist, firm, medium plasticity, with sand (10%) and well rounded gravel up to 1/2" (<10%).		CL				0	
	SANDY CLAY, dark greenish gray (10Y 4/1), moist, high plasticity, with sand (20%) and gravel (20%).		CL				0	Organic odor.
30	SANDY CLAY, olive brown (2.5Y 4/4), dry, stiff, firm low plasticity, with sand (30%) and		CL					

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Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	subangular to subrounded chert gravel (20%). Same as above, medium plasticity. Same as above, high plasticity, less gravel (10%).		CL				0	Easier drilling.
35	GRAVELLY CLAY with SAND, olive brown (2.5Y 4/3), moist, soft, high plasticity, with sand (25%) and angular, flat chert up tp 3" long or rounded chert gravel (30%).		CL				0	
40	Same as above, less sand (20%), very soft.		CL				0	
45							0	
50	CLAY, wet, very soft, with sand (15%) and gravel up to 1/2" (<10%).		CL				0	
55	CLAYEY GRAVEL, very dense, subangular to well rounded chert gravel up to 1", with clay (20%).		GC					Very hard drilling. Rock not fractured, failed to locate major fracture zone after 2 attempts.
	ROCK, very dark grayish brown (10YR 3/2), laminated, dry, hard with gravel (<5%) and trace sand.		RX					
60	End of boring at 54 feet below ground surface. Groundwater encountered at 45 feet. Boring completed as 4" monitoring well.							
65								
70								